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Cutler et al.(10) **Pub. No.: US 2021/0112808 A1**(43) **Pub. Date: Apr. 22, 2021**(54) **OVERPOWERED ABA RECEPTOR
AGONISTS***C07D 213/56* (2006.01)*C07C 317/28* (2006.01)*C07C 255/60* (2006.01)*A01N 37/34* (2006.01)*A01N 41/10* (2006.01)(71) Applicant: **The Regents of the University of
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(US)(52) **U.S. Cl.**CPC *A01N 43/40* (2013.01); *C07D 213/61*
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ABSTRACT(22) Filed: **Dec. 28, 2020****Related U.S. Application Data**(63) Continuation of application No. PCT/US2019/
039978, filed on Jun. 28, 2019.(60) Provisional application No. 62/691,534, filed on Jun.
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The present invention sets forth small novel abscisic acid (ABA) receptor agonist scaffolds and compounds with potent in vivo activity. In some aspects, the present invention provides agricultural formulations and methods comprising the ABA receptor agonists described herein, such as methods of managing crop water use and improving stress tolerance (e.g., drought tolerance). In some preferred embodiments, the inventive compounds have improved properties relative to the current "best in-class" molecules quinabactin and its derivatives.

Specification includes a Sequence Listing.